FIG. 1

- Allele-Specific Primer Extension (ASPE)-Based

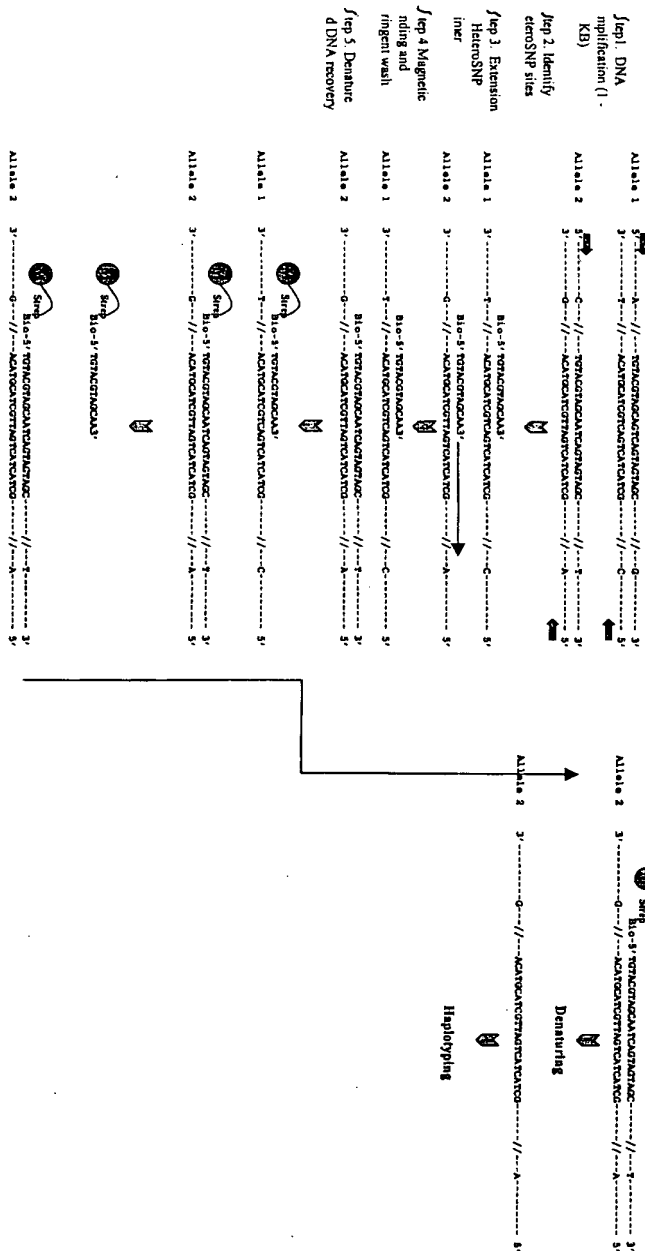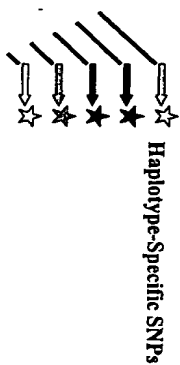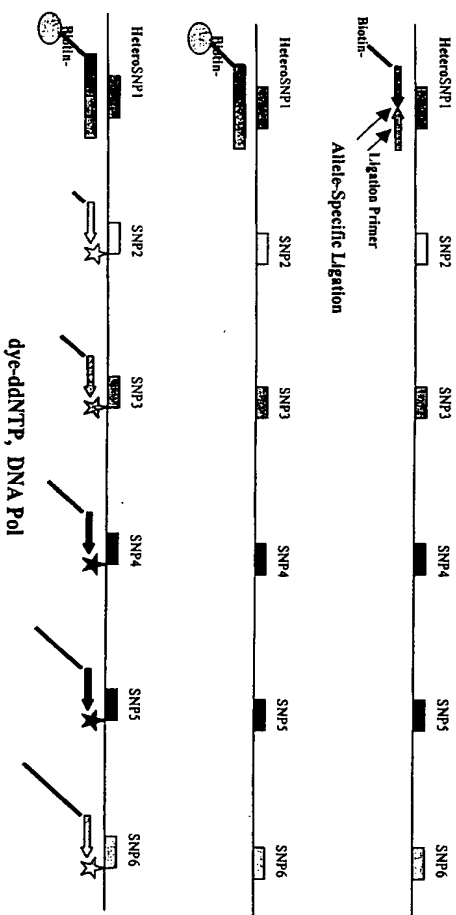# FIG. 2

- Allele-Specific Ligation/PrimerSizeTag -Based

FIG. 2 — Allele-Specific Ligation/PrimerSizeTag -Based

- Allele-Specific Ligation
- HaploCatch by Magnetic bead and Removal of Nnon-ligated prims and Mismatched DNA by Stringent Wash
- Haplotype-Specific Single Base Extension with Size-Tagged Primers
- HaploScan by Automatic Sequencing Gel

FIG. 2A

- Single-Base Extension/PrimerSize-Tag -Based

- Single Base Extension at HeteroSNP1

- Bead-Separation of Allele-Specific PCR Fragments

- Single Base Extension with Size-Tagged Primers

- HaploScan by Automatic Sequencer

FIG. 3

- Allele-Specific Ligation/PrimerSizeTag -Based

•Allele-Specific Ligation

•Single Base Extension with Size-Tagged Primers

•HaploCatch by Magnetic bead and Removal of Nnon-ligated prims and Mismatched DNA by Stringent Wash

•HaploScan by Automatic Sequencing Gel

FIG. 4

(- Hybridization/MassCode -Based

- SNP probe
hybridization

- HaploCatch by
Magnetic bead and
Removal of bound
Mismatched SNP probes
by Stringent Wash

- Mass-Code cleavage

- Scan by Mass
Spectrometer

Haplotype-Specific Signals

FIG. 5

- Allele-Specific Ligation/PrimerSizeTag - Based

FIG. 6

A

B

C

D

E

F